



## INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

### Certificate

TS ISO 8528

CE

SZUTEST

2000/14/EC

### General Characteristics

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Model Name</b>                | AD 938-6                         |
| <b>Frequency (Hz)</b>            | 60                               |
| <b>Fuel Type</b>                 | Diesel                           |
| <b>Engine Made and Model</b>     | HYUNDAI - DP 222 LC-60Hz         |
| <b>Alternator Made and Model</b> | Mecc Alte - ECO 40-VL/4 B - 60Hz |
| <b>Control Panel Model</b>       | DSE 7320                         |
| <b>Canopy</b>                    | MS 85                            |

**3 Phase, 50 Hz, PF 0.8**

| VOLTAGE | STANDBY RATING (ESP) |        | PRIME RATING (PRP) |        | Standby Amper |
|---------|----------------------|--------|--------------------|--------|---------------|
|         | kVA                  | kW     | kVA                | kW     |               |
| 480/277 | 951.25               | 761.00 | 863.75             | 691.00 | 1144.21       |
| 380/220 | 838.75               | 671.00 | 762.50             | 610.00 | 1274.39       |

**STANDBY RATING (ESP)** : Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528-1. Overload is not allowed.

**PRIME RATING (PRP)** : Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation.

**ENGINE SPECIFICATIONS**

|                            |    |                       |
|----------------------------|----|-----------------------|
| Engine                     |    | HYUNDAI               |
| Engine Model               |    | DP 222 LC-60Hz        |
| NO. OF CYLINDERS AND BUILD |    | 12 cylinders - V type |
| BORE AND STROKE            | mm | 128 X 142             |
| TOTAL DISPLACEMENT         | L  | 21.927                |



|                                  |             |                                            |  |
|----------------------------------|-------------|--------------------------------------------|--|
| <b>Aspiration</b>                |             | Turbo Charged and Intercooled (Air to Air) |  |
| <b>COMPRESSION RATIO</b>         |             | 15.0:1                                     |  |
| <b>RATED SPEED (RPM)</b>         | <b>d/dk</b> | 1800                                       |  |
| <b>OIL CAPACITY</b>              | <b>L</b>    | 40                                         |  |
| <b>Standby Power (kW/HP)</b>     |             | 828/1126                                   |  |
| <b>Prime Power</b>               |             | 753/1023                                   |  |
| <b>Block Heater QTY</b>          |             |                                            |  |
|                                  |             | 1                                          |  |
| <b>Block Heater Power (Watt)</b> |             |                                            |  |
|                                  |             | 3000                                       |  |
| <b>Fuel Type</b>                 |             |                                            |  |
|                                  |             | Diesel                                     |  |
| <b>Injection Type and System</b> |             |                                            |  |
|                                  |             | Direct                                     |  |
| <b>Type of Fuel Pump</b>         |             |                                            |  |



|                                                            |                     |              |  |
|------------------------------------------------------------|---------------------|--------------|--|
|                                                            | Bosh In-Line P Type |              |  |
| <b>Governor System</b>                                     |                     |              |  |
|                                                            |                     | Electronic   |  |
| <b>Operating Voltage (Vdc)</b>                             |                     |              |  |
|                                                            |                     | 24 Vdc       |  |
| <b>Battery and Capacity (Qty/Ah)</b>                       |                     |              |  |
|                                                            |                     | 2x143        |  |
| <b>Charge Alternator (A)</b>                               |                     |              |  |
|                                                            |                     | 45           |  |
| <b>Cooling Method</b>                                      |                     |              |  |
|                                                            |                     | Water Cooled |  |
| <b>Cooling Fan Air Flow (m3/min)</b>                       |                     |              |  |
|                                                            |                     | 860          |  |
| <b>Coolant Capacity (engine only / with radiator) (lt)</b> |                     |              |  |
|                                                            |                     | 23/134.8     |  |
| <b>Air Filter</b>                                          |                     |              |  |



|                                         |          |       |  |
|-----------------------------------------|----------|-------|--|
|                                         | Dry Type |       |  |
| Fuel Cons. Prime With %100 Load (lt/hr) |          |       |  |
|                                         |          | 203.8 |  |
| Fuel Cons. Prime With %75 Load (lt/hr)  |          |       |  |
|                                         |          | 147.2 |  |
| Fuel Cons. Prime With %50 Load (lt/hr)  |          |       |  |
|                                         |          | 99.3  |  |

### ALTERNATOR SPECIFICATIONS

|                           |     |                      |
|---------------------------|-----|----------------------|
| Manufacturer              |     | Mecc Alte            |
| Alternator Made and Model |     | ECO 40-VL/4 B - 60Hz |
| Frequency (Hz)            | Hz  | 60                   |
| Power (kVA)               | kVA | 762.5                |
| DESIGN                    |     | 4 Pole, Brushless    |
| VOLTAGE                   | V   | 380                  |



|                                        |                      |      |
|----------------------------------------|----------------------|------|
| <b>Phase</b>                           |                      | 3    |
| <b>A.V.R.</b>                          |                      | DER1 |
| <b>Voltage Regulation</b>              | <b>(+/-)</b>         | 0.5  |
| <b>Insulation System</b>               |                      | H    |
| <b>Protection</b>                      |                      | IP23 |
| <b>Rated Power Factor</b>              |                      | 0.8  |
| <b>WEIGHT COMP. GENERATOR (Kg)</b>     |                      | 1752 |
| <b>COOLING AIR (m<sup>3</sup>/min)</b> | <b>m<sup>3</sup></b> | 64.8 |

### SIZE and WEIGHT

| Open Type                                                                           | DRY WEIGHT (kg.)<br>(kg.) | LENGTH<br>(mm.) | WIDTH<br>(mm.) | HEIGHT<br>(mm.) | TANK CAPACITY (lt.) (Lt.) |
|-------------------------------------------------------------------------------------|---------------------------|-----------------|----------------|-----------------|---------------------------|
|  | 4320                      | 3630            | 1550           | 2300            | 1000                      |
| CANOPY                                                                              | DRY WEIGHT (kg.)<br>(kg.) | LENGTH<br>(mm.) | WIDTH<br>(mm.) | HEIGHT<br>(mm.) | TANK CAPACITY (lt.) (Lt.) |



|                                                                                                                               |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|
| MS 85<br>Image not found of type unknown<br> | 5535 | 5282 | 1605 | 2504 | 1000 |
|-------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|

## STANDART SPECIFICATIONS

Water cooled, Diesel engine  
 Radiator with mechanical fan  
 Protective grille for rotating and hot parts  
 Electric starter and charge alternator  
 Starting battery (with lead acid) including rack and cables  
 Engine coolant heater  
 Base frame design incorporates an integral fuel tank and anti-vibration isolators  
 Flexible fuel connection hoses  
 Single bearing, class H alternator  
 Industrial exhaust silencer and steel bellows supplied separately(for open sets)  
 Static battery charger  
 Manual for application and installation

## OPTIONAL EQUIPMENTS

### TRANSFER SWITCH

- Three or four pole motor operated circuit breaker
- Four Pole Contactor
- Three Pole Contactor

### OTHER ACCESSORIES

- Trailer
- Inlet and outlet acoustic baffles
- Inlet and outlet motorised louvers
- Tool kit for maintenance
- Automatic transfer switch
- Main Fuel Tank
- Supplied with oil and coolant - 30 °C
- Electrical oil drain pump
- Manual oil drain pump
- Automatic or manual fuel filling system
- Low and high fuel level alarm

Производителъ сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.



- Duct adapter ( on radiator)
- Enclosure: weater protective or sound attenuated
- Residential silencer

**CONTROL SYSTEM**

- Remote communication with modem
- Alarm output relays
- Charge Ammeter
- Earth fault, single set
- Transition synchronization with mains
- Automatic synchronising and power control system ( multi gen-set

**Parallel )**

- Remote relay output
- Remote annunciator panel

**ENGINE**

- Oil heater
- Fuel-Water Seperator Filter

**ALTERNATOR**

- PMG excitation + AVR
- Main line circuit breaker
- Anti-Condensation Heater
- Over sized alternator

**INTRODUCTION**

Sound-attenuated and weather-protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

**STANDARD SPECIFICATIONS**

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and fuel tank are pre-assembled, pre-integrated and shipped as one package

Body made from steel components treated with polyester powder coating

Fire retardant foam insulation

Easy access to all service points

Exhaust system inside canopy

Large doors on each side

Control panel viewing window in a lockable access door

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.



Emergency stop push button mounted on enclosure exterior

Cooling fan and battery charging alternator fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of canopy and base frame

Customer options available to meet your application's needs.

Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

|                            |            |       |
|----------------------------|------------|-------|
| <b>CANOPY MODEL</b>        |            | MS 85 |
| <b>WIDTH</b>               | <b>mm.</b> | 1605  |
| <b>LENGTH</b>              | <b>mm.</b> | 5282  |
| <b>HEIGHT</b>              | <b>mm.</b> | 2504  |
| <b>TANK CAPACITY (lt.)</b> | <b>Lt.</b> | 1000  |